

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	D. none of these
2	The tangents drawn from the point P to a circle are real and distinct if	A. P is on the circle B. P is inside the circle C. P is outside the circle D. none of these
3	Question Image	
4	1st four terms of the expansion $(1-x)^{-2}$ are	A. $1 + 2x + 3x^2 + 4x^3$ B. $3x^2 + 2x + 1$ C. $1 + 3x + 4x^2 + 5x^3$ D. None of these
5	(1,0) is in the solution of the inequality	A. $3x + 2y \geq 8$ B. $2x - 3y \leq 4$ C. $2x + 3y \geq 3$ D. $x - 2y \leq -5$
6	A function of the form $p(x)/Q(x)$ is called:	A. Rational function B. Logarithmic function C. Exponential function D. Hyperbolic function
7	Question Image	A. 0 B. 1 C. -1 D. none of these
8	Riaz, Saba, Maria, Shehzad are to give speeches in a class. The teacher can arrange the order of their presentation in	A. 4 ways B. 12 ways C. 256 ways D. 24 ways
9	The coefficient of x^n in the expansion of $(1-2x)^{-1}$ is	A. $(-1)^{n-2}$ B. 2^n C. $(-1)^{(n+1)}x^n$ D. $(n+1)2^n$
10	A chimney is such that on walking towards it 50 m in a horizontal line through its base the angular elevation of its top changes from 30° to 45° . The height of the chimney is	
11	The formula $a_n = a + (n-1)d$ for an A.P is called	A. nth term of an A.P B. Sum of first n terms C. A.M between a and b D. None of the above
12	The two lines $y = 2x$ and $x = 2y$ are	A. Parallel B. Perpendicular C. Equally inclined with axes D. Congruent
13	Question Image	A. 0 B. -1 C. 1 D. 2
14	An open sentences formed by using the sign of equality '=' is called _____	A. An identity B. An equation C. A polynomial D. None of these
15	Question Image	
16	If the roots of $3x^2 + kx + 12 = 0$ are equal then $k =$ _____	
17	Number of lines passing through three non-collinear points is	A. 2 B. 3 C. 1 D. 0 E. ∞

18	The many subset can be formed from the set {a,b,c,d}	A. 8 B. 4 C. 12 D. 16
19	The sum of the cubes of three consecutive natural number is divisible by	A. 9 B. 6 C. 5 D. 10
20	Question Image	